

**REGULATION CLARIFICATION  
For  
OPERATING TESTS**

**REGULATION:**

According to Section 19-13-B102(g) of the Regulations of Connecticut State Agencies (RCSA), water samples taken to conform with the monitoring requirements of the regulations must be analyzed and reported to the public water system by a laboratory approved by the Department for the parameters tested. The Department may grant an exemption from this requirement in writing for *chlorine, pH, temperature, turbidity, fluoride and color* when the analysis is conducted by a certified treatment operator using a method approved by the Department.

**CLARIFICATION:**

A written exemption maybe granted by the Department when:

- 1) The analysis is conducted by a certified treatment operator, and
- 2) The method utilized by the operator is listed in the attached table.

**TABLE OF APPROVED METHODOLOGIES:**

Analyte	Methodology	EPA	ASTM <sup>2</sup>	SM <sup>3</sup>	Other
Residual Chlorine <sup>1</sup>	Amperometric Titration			4500-CI D	
	DPD Ferrous Titrimetric			4500-CI F	
	DPD Colorimetric			4500-CI G	
	Syringaldahyde (FACTS)			4500-CI H	
	Online Chlorine Analyzer	334			
	Free Chlorine Water Check test strips				ITS SenSafe
	Chlorine (free & total) DDPD Kit				CHEMetrics ULR CHEMets® Visual Kit
PH	Electrometric	150.1	D1293-84	4500-H <sup>+</sup> -B	
		150.2			

Temperature	Thermometric			2550B	
Turbidity	Nephelometric	180.1		2130B	GLI Method 2
	Laser Nephelometry (online)				Mitchell M5271.10 Mitchell M5331, Rev. 1.2.42 Lovibond PTV 6000.46
	LED Nephelometry (online)				Mitchell M5331 11 Mitchell M5331, Rev. 1.2.42 Lovibond PTV 2000.45
	LED Nephelometry (online)				AMI Turbiwell.15 Lovibond PTV 1000.44
	LED Nephelometry (portable)				Orion AQ4500.12
	360° Nephelometry				Hach Method 10258.39
Fluoride	Ion Chromatography	300.00	D4327-91	4110B	
	Manual Distill. SPADNS			4500F-B,D	
	Manual ISE		D1179-93B	4500F-C	
	Automated ISE				380-75WE
	Auto. Alizarin			4500F-E	129-71W
Color				2120B	

## Footnotes

- <sup>1</sup> Free and total chlorine residuals may be measured continuously by adapting a specified chlorine residual method for use with a continuous monitoring instrument provided the chemistry, accuracy, and precision of the measurement remain the same. Instruments used for continuous monitoring must be calibrated with a grab sample measurement at least every five days, or with protocol approved by the State.
- <sup>2</sup> Annual Book of ASTM Standards, Vols. 11.01 and 11.02, American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.
- <sup>3</sup> *Standard Methods for the Examination of Water and Wastewater*, 22nd Edition, American Public Health Association, 1015 Fifteenth Street NW, Washington, D.C. 20005.